



2005 AMOS TECHNICAL CONFERENCE

September 5–9, 2005 • Wailea, Maui, Hawaii

The Air Force Research Laboratory, Detachment 15 will hold the sixth annual AMOS Technical Conference on September 5–9, 2005 at the Grand Wailea Resort in Maui, Hawaii.

The conference series aims to provide a stimulating and thought-provoking forum for sharing the latest technical developments and ideas in space surveillance, optics and high performance computing. It is intended for scientists, engineers, and technical managers from academia, industry, government, and military programs.

WELCOME REMARKS

- Buzz Aldrin, *Colonel, USAF (Retired); Former NASA Astronaut*

KEYNOTE SPEAKER

- Major General William L. Shelton, *Commander, 14th Air Force, Vandenberg Air Force Base*

SESSION CHAIRS

- Terry Alfrend, *Texas A&M University*; Bob Fugate, *Air Force Research Laboratory, Starfire Optical Range*; Matt Hejduk, *Titan Corporation*; Bobby Hunt, *SAIC*; Nick Johnson, *NASA Johnson Space Center*; Keith Knox, *Boeing*; David Monet, *U.S. Naval Observatory, Flagstaff*; Ben Oppenheimer, *The American Museum of Natural History*; Jim Riker, *Air Force Research Laboratory, Det15*.

TECHNICAL PAPERS – A SELECTION OF CONFIRMED SPEAKERS

- The Giant Magellan Telescope, Adaptive Optics with 24 m Aperture, *Roger Angel, Steward Observatory, University of Arizona*
- Overview of LGS-AO Activities and Technological Developments at the European Southern Observatory, *Domenico Bonaccini, European Southern Observatory*
- Differential Absorption Lidar for Profiling Water Vapor and Aerosols for Atmospheric Transmission Studies, *Syed Ismail, NASA Langley Research Center*
- ANDE Risk Reduction Flight Observing Opportunities and Mission Update, *Andrew Nicholas, Naval Research Laboratory*
- Our 4m AEOS Neighbor: Overview and Current-Status of the Advanced Technology Solar Telescope (ATST), *Jeff Kuhn, University of Hawaii, Institute for Astronomy*
- Observing Deep-Space Microsatellites with the MMT and Large Binocular Telescope, *Simon P. Worden, Center for Astronomical Adaptive Optics, Steward Observatory, University of Arizona*
- Generation of Short Pulse Sodium Beacons for 30 Meter Class Telescopes, *Edward Kibblewhite, University of Chicago*
- Post Processing of Acquisition Sensor Images, *Keith Knox, AMOS (Boeing LTS)*
- Astrometric Expectations for the Pan-STARRS AP Survey, *David Monet, U.S. Naval Observatory*
- Architectural Concepts for a Deep Space Optical Communications Ground Network, *Ben Parvin, NASA Jet Propulsion Laboratory*
- The Second Confirmed Unintentional On-Orbit Collision, *Timothy Payne, HQ AFSPC/XPY*
- Properties of the High Area-to-Mass Ratio Space Debris Population in GEO, *Thomas Schildknecht, Astronomical Institute, University of Bern*
- Hyperspectral Algorithms for Extraction of Information about Subpixel Targets, *John R. Schott, Rochester Institute of Technology*
- Scintillation in High Dynamic Range Coronagraphy, *Anand Sivaramakrishnan, Space Telescope Science Institute*
- The Near Earth Object Surveillance Satellite (NEOSSat): Initial System Requirements and Feasibility, *Brad Wallace, Defence R&D Canada-Ottawa*

OPTIONAL TOUR (SPACE IS LIMITED)

- Sunday, September 4 – Maui High Performance Computing Center and Maui Space Surveillance System

REGISTRATION

The AMOS conference will be held at the Grand Wailea Resort, in Maui, Hawaii. The group hotel rate is \$159 per night, plus 11.426% tax. Reserve your room early as there are a limited number of rooms available at this special rate. For hotel reservations call 1.800.888.6100 and reference the AMOS Technical Conference.

Register by July 15, to receive early registration discount.

Register via the form on back or visit the AMOS website at <http://www.maui.afmc.af.mil>

CHANGE SERVICE REQUESTED

590 Lipoa Parkway, Suite 103 • Kihei, Maui, Hawaii 96753

2005 AMOS TECHNICAL CONFERENCE

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Registration Information

Name _____
Title _____
Organization _____
Address _____
City _____ State _____ Zip _____
Phone _____ Fax _____
Email _____

Conference Fees

Fee includes conference materials, admittance to all sessions Tuesday through Friday (including coffee breaks, breakfasts and lunches), poster session, evening tutorials, the welcome reception and evening social.

	pre-July 15	post-July 15	on site
Author/Govt.	\$695	\$745	\$850
Regular	\$745	\$800	\$850

Non U.S. Citizens please provide passport # _____
date of birth _____
country of issuance _____

Optional Tour

Tour costs are for ground transportation and refreshments. Tour is limited to conference participants.

- ☐ Maui High Performance Computing Center and Maui Space Surveillance System, Sunday, Sept. 4 (cost \$35)

Guests

Guests not attending the conference are invited to join participants at the two evening functions.

- ☐ Monday, Sept. 5 Reception \$80 ☐ Thursday, Sept. 8 Evening Social \$80

Guest Name _____

Method of Payment

NOTE: ALL PAYMENTS MUST BE MADE IN U.S. CURRENCY

- ☐ Check/Money Order payable to: Maui Economic Development Board

- ☐ Purchase Order # _____

Charge my: ☐ Mastercard ☐ Visa ☐ AMX

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Send Completed Form to:

2005 AMOS Technical Conference

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To register online visit the AMOS website at

<http://www.maui.afmc.af.mil>